

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Listing of Claims:

1. (Original) A method comprising:
providing a design-time translator and a run-time translator that both correspond to a defined page element;
during design-time for a page, invoking the design-time translator for a page template including the defined page element having one or more content components, said design-time invoking resulting in the defined page element in the page template being translated into a representation of the one or more content components in the page; and
during run-time for the page, invoking the run-time translator for the page template, said run-time invoking resulting in the one or more content components being obtained and the defined page element in the page template being translated into a presentation of the obtained one or more content components.
2. (Original) The method of claim 1, wherein said invoking the design-time translator further results in presentation of a WYSIWYG layout editor using the representation of the one or more content components in the page.

3. (Original) The method of claim 2, wherein the said invoking the design-time translator further results in client-side scripting components being included in the representation to form at least part of the WYSIWYG layout editor and enable adding a content component to a content container using a drag-and-drop action.

4. (Original) The method of claim 2, wherein the page template comprises a portal page template, and the WYSIWYG layout editor comprises a WYSIWYG portal page layout editor.

5. (Original) The method of claim 4, wherein the defined page element comprises a custom Java Server Page tag and the design-time translator and the run-time translator comprise Java Server Page tag handlers for the custom Java Server Page tag, and wherein the run-time translator obtains portal dynamic content according to the portal page template and the design-time translator does not.

6. (Original) An article comprising a machine-readable medium storing instructions operable to cause one or more machines to perform operations comprising:

during design-time of a portal page, translating a placeholder in a portal template into a representation of a container designed to present portal dynamic content associated with the placeholder, and presenting a WYSIWYG portal layout editor using the representation of the container designed to present the portal dynamic content; and

during run-time of a portal page, obtaining the portal dynamic content from a dynamic content source, and translating the placeholder in the portal template into a presentation of the container and the obtained portal dynamic content.

7. (Original) The article of claim 6, wherein translating the placeholder during design-time comprises adding code enabling editing of the portal page, the added code forming at least part of the WYSIWYG portal layout editor.

8. (Original) The article of claim 7, wherein the added code comprises client-side scripting that enables addition of a content component to a content container in the portal page using a drag-and-drop action.

9. (Original) The article of claim 6, wherein the placeholder comprises a custom Java Server Page tag, said translating the placeholder during design-time comprises invoking a design-time Java Server Page tag handler corresponding to the custom Java Server Page tag, and said translating the placeholder during run-time comprises invoking a run-time Java Server Page tag handler corresponding to the custom Java Server Page tag.

10. (Original) A machine-implemented method comprising:
selectively interpreting a portal page template based on a mode of operation, wherein the interpreting results in presentation of a design-time application operable to edit the portal page template if the mode of operation is design-time, and the interpreting results in presentation of a run-time application operable to interact with portal dynamic content if the mode of operation is run-time.

11. (Original) The method of claim 10, wherein selectively interpreting the portal page template comprises:

providing a design-time translator and a run-time translator that both correspond to a defined page element;

during design-time, invoking the design-time translator for the portal page template including the defined page element having one or more content components, said invoking resulting in the defined page element in the portal page template being translated into a representation of the one or more content components in the page; and

during run-time, invoking the run-time translator for the page template, said invoking resulting in the one or more content components being obtained and the defined page element in the page template being translated into a presentation of the obtained one or more content components.

12. (Original) The method of claim 11, wherein said invoking the design-time translator further results in client-side scripting components being included in the representation to form at least part of the design-time application and enable adding a content component to a content container in the portal page template using a drag-and-drop action.

13. (Original) The method of claim 11, wherein the defined page element comprises a custom Java Server Page tag and the design-time translator and the run-time translator comprise Java Server Page tag handlers for the custom Java Server Page tag, and wherein the run-time translator obtains portal dynamic content according to the portal page template and the design-time translator does not.

14. (Original) An article comprising a machine-readable medium storing instructions operable to cause one or more machines to perform operations comprising:

selectively interpreting a portal page template based on a mode of operation, wherein the interpreting results in presentation of a design-time application operable to edit the portal page template if the mode of operation is design-time, and the interpreting results in presentation of a run-time application operable to interact with portal dynamic content if the mode of operation is run-time.

15. (Original) The article of claim 14, wherein selectively interpreting the portal page template comprises:

providing a design-time translator and a run-time translator that both correspond to a defined page element;

during design-time, invoking the design-time translator for the portal page template including the defined page element having one or more content components, said invoking resulting in the defined page element in the portal page template being translated into a representation of the one or more content components in the page; and

during run-time, invoking the run-time translator for the page template, said invoking resulting in the one or more content components being obtained and the defined page element in the page template being translated into a presentation of the obtained one or more content components.

16. (Original) The article of claim 15, wherein said invoking the design-time translator further results in client-side scripting components being included in the representation to form at least part of the design-time application and enable adding a content component to a content container in the portal page template using a drag-and-drop action.

17. (Original) The article of claim 15, wherein the defined page element comprises a custom Java Server Page tag and the design-time translator and the run-time translator comprise Java Server Page tag handlers for the custom Java Server Page tag, and wherein the run-time translator obtains portal dynamic content according to the portal page template and the design-time translator does not.

18. (Original) A portal system comprising:
a WYSIWYG portal layout editor that uses a selectively interpreted portal page template to reveal a WYSIWYG layout context for portal dynamic content without obtaining the portal dynamic content;

a first tag handler implementing a first custom action for a custom tag during portal design-time, wherein the WYSIWYG portal layout editor uses the first tag handler with the selectively interpreted portal page template to facilitate editing of the selectively interpreted portal page template; and

a second tag handler implementing a second custom action for the custom tag during portal run-time, wherein the portal system uses the second tag handler during portal run-time to obtain and reveal the portal dynamic content.

19. (Original) The system of claim 18, wherein the first tag handler interprets the portal page template by including client-side scripting that enables addition of a content component to a content container in the portal page template using a drag-and-drop action.

20. (Original) The system of claim 18, wherein the defined page element comprises a custom Java Server Page tag and the design-time translator and the run-time translator comprise Java Server Page tag handlers for the custom Java Server Page tag, and wherein the run-time translator obtains portal dynamic content according to the portal page template and the design-time translator does not.

21. (Original) A system comprising:
means for building a portal layout template that governs generation of a portal presentation having dynamic run-time content, wherein the means for building includes means for revealing the portal presentation as governed by the layout template during design of the layout template, without running the dynamic run-time content.

22. (Original) The system of claim 21, wherein the means for revealing the portal presentation includes means for facilitating client-side editing of the portal layout template.

23. (New) The method of claim 1, wherein the during design-time comprises a period during which editing for the page is supported and the during run-time comprises a period during which editing of the page is not supported.

24. (New) The method of claim 1, wherein the design-time translator is part of a WYSIWYG layout editor, and the run-time translator is part of a run-time system that supports presenting the page without supporting editing of the page.